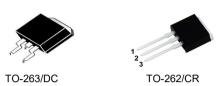
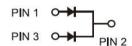


LOW VF SCHOTTKY RECTIFIER









FEATURES

- Low forward voltage
- · High current capability
- High forward surge capability
- Low power losses, High efficiency
- Guarding for over voltage protection



APPLICATIONS

Low VF Schottky barrier rectifier are designed for high frequency, miniature switched mode power supplies such as adapters ,lighting and on-board DC/DC conerters

Primary Characteristic		
Io	2*20A	
V_{RRM}	45V	
I _{FSM}	250A	
V _F	0.49V	
T _J max	150℃	

MECHANICAL DATA

Case: Molded plasticPolarity: As markedMounting Position: Any

Molded Plastic: UL Flammability Classification Rating 94V-0
Lead free in compliance with EU RoHS 2011/65/EU directive

• Solder bath temperature 275°C maximum,10s per JESD 22-B106

Maximum Ratings (Per L	eg) at Ta=25	°C unless	otherwise specified	
Characteristics		Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	45	V
Working Peak Reverse Voltage		V_{RWM}	45	V
Maximum DC Blocking Voltage		V_{DC}	45	V
Maximum Average Forward Rectified Current	Per Leg	Ю	20	A
	Total		40	
Peak Forward Surge Current,8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)		I _{FSM}	250	Α
Operating Temperature Range		T _J	-50 to +150	°C
Storage Temperature Range		T _{STG}	-50 to +150	°C
Typical Thermal Resistance (Note1)				
TO-220AB,TO-263,TO-262		$R_{\theta JC}$	2	°C/W
TO-220F			4	

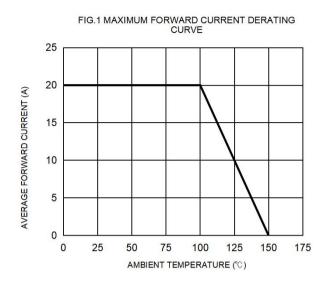
Note1: Thermal resistance from Junction to case per leg mounted on heatsink.

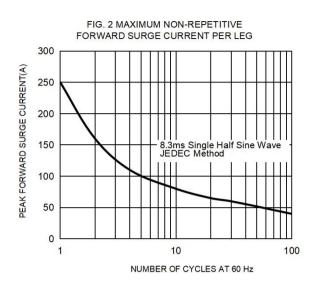
Electrical Characteristics	(Per Leg) un	less other	wise specifie	ed	
Characteristics	3	Symbol	Valu	ıe	Unit
Forward Voltage Drop(Note2)			Тур.	Max.	
at I _F =5A	TA=25°C	V _F	0.38	-	
	TA=125°C		0.28	-	V
ot I =10A	TA=25°C		0.44	-	
at I _F =10A	TA=125°C		0.36	-	
at I _F =20A	TA=25°C		0.53	0.60	
	TA=125°C		0.49	-	
Maximum Reverse Current at V _R =45V	TA=25°C	I _R	70	200	μΑ
	TA=125°C		2	-	mA

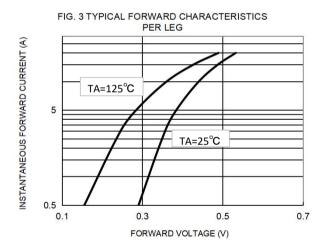
Note2:Pulse test: 300 μs pulse width, 1 % duty cycle

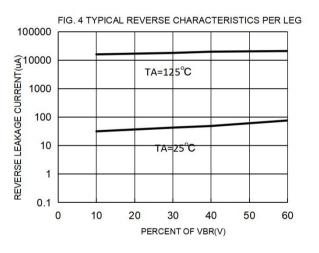


RATINGS AND CHARACTERISTIC CURVES



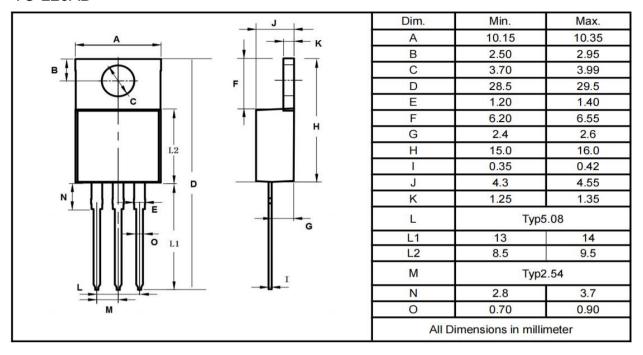




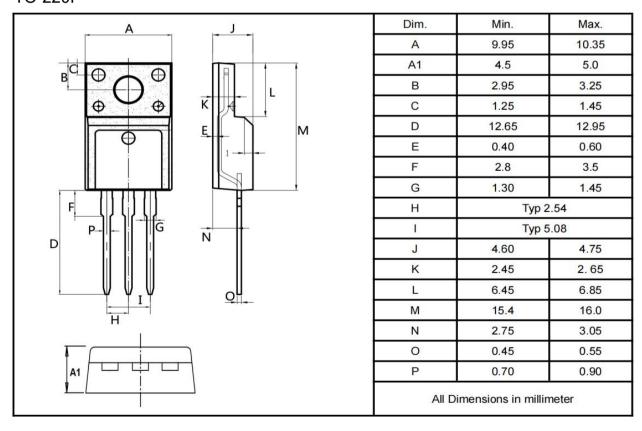


Package Outline Dimensions millimeters

TO-220AB



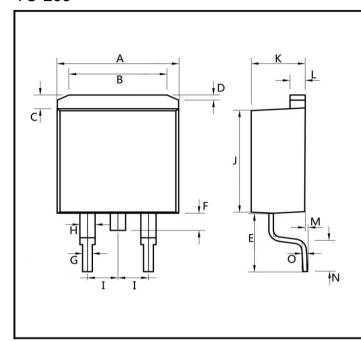
TO-220F





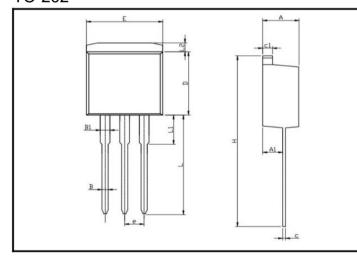
Package Outline Dimensions millimeters

TO-263



Dim.	Min.	Max.	
Α	10.10	10.35	
В	6	8	
С	1.2	1.5	
D	0.55	1.0	
Е	4.3	5.3	
F	1.4	1.6	
G	0.75	0.85	
Н	1.2	1.5	
I	Typ2.54		
J	8.5	9.5	
K	4.3	4.55	
L	1.25	1.35	
М	0.02	0.23	
N	2.2	2.8	
0	0.3	0.4	
All Dimensions in millimeter			

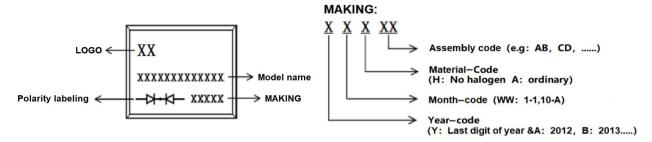
TO-262



Dim.	Min.	Max.
Α	4.4	4.6
A1	2.4	2.6
В	0.75	0.85
B1	1.2	1.4
С	0.35	0.42
C1	1.25	1.35
D	8.5	9.5
Е	10.15	10.35
Н	23	25
L	13	14
L1	2.8	3.5
L2	1.2	1.5
All Dimensions in millimeter		



Marking on the body



Ordering information			
Part Number	Package	Base Quantity	Delivery mode
SBT40L60CT	TO-220AB	50 pcs / tube	1000pcs/box 5000pcs/carton
SBT40L60FCT	TO-220F	50 pcs / tube	1000pcs/box 5000pcs/carton
SBT40L60DC	TO-263	50 pcs / tube	1000pcs/box 5000pcs/carton
SBT40L60DC-R	TO-263	800 pcs / reel	1600pcs/box 8000pcs/carton
SBT40L60CR	TO-262	50 pcs / tube	1000pcs/box 5000pcs/carton

Note: For Halogen Free molding compound, add "H" suffix to part number above.

packing instruction

PKG	最小包装	内盒	外箱
TO-220AB TO-220F TO-263 TO-262			
	50pcs/管	1000pcs/盒	5000pcs/箱
TO-263-R			
	800pcs/盘	1600pcs/盒	8000pcs/箱

Notice

- 1. All product, product specifications and data are subject to change without notice to improve. The right to explain is owned by LINGXUN electronics company.
- 2. Confirm that operation temperature is within the specified range described in the product specification. Avoid applying power exceeding normal rated power;

exceeding the power rating under steady-state loading condition may negatively affect product performance and reliability.

3. LINGXUN electronics shall not be in any way responsible or liable for failure induced under deviant condition from what is defined in this document.